

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/019178 A3

(51) International Patent Classification⁷: **G06F 15/16**
(21) International Application Number:
PCT/US2003/026466
(22) International Filing Date: 22 August 2003 (22.08.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/405,553 23 August 2002 (23.08.2002) US
(71) Applicant (for all designated States except US): **BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.** [US/US]; 65 Spit Brook Road, Nashua, NH 03060 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and
(75) Inventor/Applicant (for US only): **WARDWELL, David, R.** [US/US]; 34 Colonel Daniels Dr., Bedford, NH 03110-5010 (US).
(74) Agents: **NG, Antony, P. et al.**; Bracewell & Patterson, L.L.P., P.O. Box 969, Austin, TX 78767-0969 (US).

Declaration under Rule 4.17:

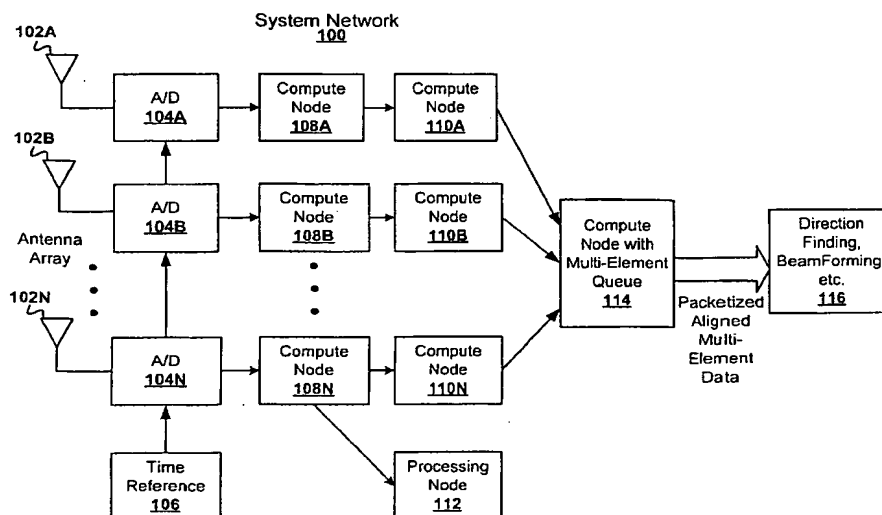
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: **METHOD AND SYSTEM FOR COLLATING DATA IN A DISTRIBUTED COMPUTER NETWORK**



(57) Abstract: A method and system (100) for collating data in a distributed computer network are disclosed. A set of data packets is initially received from a group of non-synchronous compute nodes (108a-n and 110a-n). Each of the set of data packets is provided by one of the non-synchronous compute nodes. (108a-n and 110a-n). Then, the data packets are inserted into a software container according to user predetermined rules for determining a logical order for the data packets. The common groups of the data packets are located within the container according to the user-predetermined rules. The container is protected against incomplete groups of the data packets due to system anomalies or quality of service within the distributed computer network. Finally, the logical group of the data packets that represent an aggregate packet is output from the non-synchronous compute nodes (108a-n and 110a-n) after the grouping criteria.



(88) Date of publication of the international search report:

19 August 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26466

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/16

US CL : 709/201

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 709/201, 709/219

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, WEST, IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 2003/0120723 A1 (BRIGHT et al) 26 June 2003 (26.06.2003), Claim 43, lines 1-9 and Abstract	1, 5, and 9
A	US 2002/0169851 A1 (WEATHERSBY et al.) 14 Nov 2002 (14.11.2002), Abstract	1-12
Y	US 6,240,457 B1 (BELL) 29 May 2001 (29.05.2001), column 9, lines 12-21	1-12
Y	US 6,421,321 B1 (SAKAGAWA et al) 16 June 2002 (16.06.2002), Abstract	1-12



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

22 April 2004 (22.04.2004)

Date of mailing of the international search report

07 JUN 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Glen Burgess

Telephone No. 703-305-3900